



Maize residue testing annual datasets 2020–21

National Residue Survey, Department of Agriculture, Water and the Environment

Dataset abbreviations

LOR Limit of reporting.

MRL Maximum residue limit.

no limit No Australian standard applicable for the contaminant. The ‘as low as reasonably achievable’ principle applies. Detections at low levels are allowable.

not defined Standards are not defined in inedible matrixes (urine and faeces).

not set No Australian standard has been set for the chemical in the edible matrix and any detection is a contravention of the Australia New Zealand Food Standards Code.

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Table 1 Fungicides

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
azoxystrobin	whole	0.01	0.01	10	0	0
benalaxyl	whole	0.01	not set	10	–	0
bitertanol	whole	0.01	not set	10	–	0
bixafen	whole	0.01	0.01	10	0	0
boscalid	whole	0.01	0.5	10	0	0
bupirimate	whole	0.01	not set	10	–	0
captafol	whole	0.02	not set	10	–	0
captan	whole	0.01	not set	10	–	0
carbendazim	whole	0.01	not set	10	–	0
carboxin	whole	0.01	0.1	10	0	0

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Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
chlorothalonil	whole	0.01	not set	10	–	0
cyproconazole	whole	0.01	0.01	10	0	0
cyprodinil	whole	0.01	not set	10	–	0
difenoconazole	whole	0.01	0.01	10	0	0
dimethomorph (sum of E and Z isomers)	whole	0.01	not set	10	–	0
dithianon	whole	0.01	not set	10	–	0
dodine	whole	0.01	not set	10	–	0
epoxiconazole	whole	0.01	0.05	10	0	0
etridiazole	whole	0.01	not set	10	–	0
fenarimol	whole	0.01	not set	10	–	0
fenbuconazole	whole	0.01	not set	10	–	0
fenhexamid	whole	0.01	not set	10	–	0
fluazinam	whole	0.01	not set	10	–	0
fludioxonil	whole	0.01	0.02	10	0	0
fluquinconazole	whole	0.01	not set	10	–	0
flusilazole	whole	0.01	not set	10	–	0
flutriafol	whole	0.01	0.1	10	0	0
fluxapyroxad	whole	0.01	0.1	10	0	0
hexaconazole	whole	0.01	not set	10	–	0
imazalil	whole	0.01	not set	10	–	0
ipconazole	whole	0.01	0.01	10	0	0
iprodione	whole	0.01	not set	10	–	0
isoprothiolane	whole	0.01	not set	10	–	0
kresoxim-methyl	whole	0.01	not set	10	–	0
metalaxyl	whole	0.01	0.01	10	0	0
myclobutanil	whole	0.01	not set	10	–	0
oxadixyl	whole	0.01	not set	10	–	0
penconazole	whole	0.01	not set	10	–	0
penflufen	whole	0.01	0.01	10	0	0
prochloraz	whole	0.01	not set	10	–	0
procymidone	whole	0.01	not set	10	–	0
propiconazole	whole	0.01	0.05	10	0	0
prothioconazole	whole	0.01	0.3	10	0	0
pyraclostrobin	whole	0.01	0.01	10	0	0
pyrimethanil	whole	0.01	not set	10	–	0
quinoxifen	whole	0.01	not set	10	–	0
sedaxane	whole	0.01	0.01	10	0	0
spiroxamine	whole	0.01	not set	10	–	0
tebuconazole	whole	0.01	0.2	10	0	0

Chemical	Matrix	LOR (mg/kg)	MRL (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
thiabendazole	whole	0.01	not set	10	–	0
tolclofos methyl	whole	0.01	not set	10	–	0
triadimefon	whole	0.01	0.5	10	0	0
triadimenol	whole	0.01	0.01	10	0	0
trifloxystrobin	whole	0.01	not set	10	–	0
triticonazole	whole	0.01	0.05	10	0	0
vinclozolin	whole	0.01	not set	10	–	0

Table 2 Herbicides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
2,2-DPA (2,2-dichloropropionic acid)	whole	0.01	0.1	10	0	0
2,4-D	whole	0.01	0.2	10	0	0
2,4-DB	whole	0.01	0.02	10	0	0
acifluorfen	whole	0.01	not set	9	–	0
ametryn	whole	0.01	not set	9	–	0
aminopyralid	whole	0.01	0.1	10	0	0
amitrole	whole	0.01	0.01	1	0	0
atrazine	whole	0.01	0.1	10	0	0
bentazone	whole	0.01	not set	10	–	0
bicyclopyrone	whole	0.01	not set	9	–	0
bromacil	whole	0.01	not set	10	–	0
bromoxynil	whole	0.01	0.2	10	0	0
butroxydim	whole	0.01	not set	10	–	0
carfentrazone-ethyl	whole	0.01	0.05	10	0	0
chlormequat	whole	0.01	not set	1	–	0
chlorpropham	whole	0.01	not set	10	–	0
chlorsulfuron	whole	0.01	0.05	10	0	0
chlorthal-dimethyl	whole	0.01	not set	10	–	0
clethodim (parent only)	whole	0.01	not set	10	–	0
clodinafop acid	whole	0.01	not set	9	–	0
clodinafop-propargyl	whole	0.01	not set	10	–	0
clomazone	whole	0.01	not set	9	–	0
clopyralid	whole	0.01	2	10	0	0
cloquintocet-mexyl	whole	0.01	0.1	9	0	0
cyanazine	whole	0.01	0.01	10	0	0
dicamba	whole	0.01	0.05	10	0	0
dichlobenil	whole	0.01	not set	10	–	0
dichlorprop	whole	0.01	not set	1	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
diclofop-methyl	whole	0.01	0.1	1	0	0
diflufenican	whole	0.01	not set	10	–	0
dimethenamid	whole	0.01	0.02	9	0	0
diquat	whole	0.01	0.1	1	0	0
diuron	whole	0.01	0.1	10	0	0
EPTC	whole	0.01	0.04	9	0	0
ethofumesate	whole	0.01	not set	10	–	0
fenoxaprop-ethyl	whole	0.01	not set	10	–	0
flamprop-M-methyl	whole	0.01	not set	1	–	0
florasulam	whole	0.01	0.01	9	0	0
fluazifop-p-butyl	whole	0.01	not set	1	–	0
flumetsulam	whole	0.01	0.05	10	0	0
flumioxazin	whole	0.01	0.05	10	0	0
fluroxypyr	whole	0.01	0.2	10	0	0
glufosinate	whole	0.01	not set	1	–	0
glyphosate	whole	0.01	2	1	0	0
halauxifen-methyl	whole	0.01	0.01	9	0	0
halosulfuron-methyl	whole	0.01	0.05	9	0	0
haloxyfop	whole	0.01	not set	1	–	0
iodosulfuron-methyl	whole	0.01	not set	10	–	0
ioxynil	whole	0.01	not set	10	–	0
isoxaben	whole	0.01	not set	10	–	0
isoxaflutole	whole	0.01	0.02	9	0	0
linuron	whole	0.01	0.05	10	0	0
MCPA	whole	0.01	0.02	10	0	0
MCPB	whole	0.01	0.02	9	0	0
mefenpyr-diethyl	whole	0.01	0.01	9	0	0
metazachlor	whole	0.01	0.03	9	0	0
methabenzthiazuron	whole	0.01	not set	10	–	0
metolachlor	whole	0.01	0.1	10	0	0
metosulam	whole	0.01	0.02	10	0	0
metribuzin	whole	0.01	0.05	10	0	0
metsulfuron-methyl	whole	0.01	0.02	10	0	0
napropamide	whole	0.01	not set	10	–	0
norflurazon	whole	0.01	not set	10	–	0
oryzalin	whole	0.01	0.01	10	0	0
oxyfluorfen	whole	0.01	0.05	10	0	0
paraquat	whole	0.01	0.1	1	0	0
pendimethalin	whole	0.01	0.05	10	0	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
picloram	whole	0.01	0.2	10	0	0
picolinafen	whole	0.01	0.02	9	0	0
pinoxaden (parent)	whole	0.01	not set	9	–	0
prometryn	whole	0.01	0.1	9	0	0
propachlor	whole	0.01	0.05	10	0	0
propaquizafop	whole	0.01	not set	1	–	0
propyzamide	whole	0.01	not set	10	–	0
prosulfocarb	whole	0.01	not set	9	–	0
pyraflufen-ethyl	whole	0.01	0.02	9	0	0
pyrasulfotole	whole	0.01	0.02	9	0	0
pyroxasulfone	whole	0.01	0.01	9	0	0
pyroxsulam	whole	0.01	not set	9	–	0
quizalofop-ethyl	whole	0.01	not set	1	–	0
quizalofop-P-tefuryl	whole	0.01	not set	1	–	0
saflufenacil	whole	0.01	0.2	10	0	0
sethoxydim	whole	0.01	not set	10	–	0
simazine	whole	0.01	not set	10	–	0
sulfosulfuron	whole	0.01	not set	9	–	0
terbuthylazine	whole	0.01	0.01	9	0	0
terbutryn	whole	0.01	0.1	10	0	0
tralkoxydim	whole	0.01	0.02	10	0	0
triallate	whole	0.01	0.05	10	0	0
triasulfuron	whole	0.01	0.02	10	0	0
tribenuron-methyl	whole	0.01	0.05	9	0	0
triclopyr	whole	0.01	not set	10	–	0
trifluralin	whole	0.01	0.05	10	0	0

Table 3 Insecticides

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
acephate	whole	0.01	not set	10	–	0
abamectin	whole	0.01	0.01	10	0	0
emamectin	whole	0.01	0.01	10	0	0
acetamiprid	whole	0.01	not set	10	–	0
aldicarb	whole	0.01	not set	10	–	0
amitraz	whole	0.01	not set	10	–	0
azamethiphos	whole	0.01	0.1	10	0	0
azinphos-methyl	whole	0.01	not set	10	–	0
bifenazate	whole	0.01	not set	10	–	0

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bifenthrin	whole	0.01	0.02	10	0	0
bioresmethrin	whole	0.01	not set	10	–	0
buprofezin	whole	0.01	0.01	10	0	0
cadusafos	whole	0.01	not set	10	–	0
carbaryl	whole	0.01	5	10	0	0
carbofuran	whole	0.01	not set	10	–	0
chlorantraniliprole	whole	0.01	0.01	10	0	0
chlorfenapyr	whole	0.01	not set	10	–	0
chlorfenvinphos (sum of isomers)	whole	0.01	0.05	10	0	0
chlorpyrifos	whole	0.01	0.1	10	0	0
chlorpyrifos-methyl	whole	0.01	10	10	0	0
clofentezine	whole	0.01	not set	10	–	0
clothianidin	whole	0.01	0.01	10	0	0
cyantraniliprole	whole	0.01	0.05	9	0	0
cyfluthrin (sum of isomers)	whole	0.01	not set	10	–	0
cyhalothrin (sum of isomers)	whole	0.01	0.01	10	0	0
cypermethrin (sum of isomers)	whole	0.01	1	10	0	0
deltamethrin	whole	0.01	2	10	0	0
diafenthiuron	whole	0.01	not set	10	–	0
diazinon	whole	0.01	0.1	10	0	0
dichlorvos	whole	0.01	0.01	10	0	0
dicofol	whole	0.01	not set	10	–	0
diflubenzuron	whole	0.01	not set	10	–	0
dimethoate	whole	0.01	0.5	10	0	0
disulfoton	whole	0.01	not set	10	–	0
esfenvalerate	whole	0.01	2	3	0	0
ethion	whole	0.01	not set	10	–	0
ethoprophos	whole	0.005	0.005	10	0	0
etoxazole	whole	0.01	0.01	10	0	0
fenamiphos	whole	0.01	not set	10	–	0
fenbutatin oxide	whole	0.01	not set	10	–	0
fenitrothion	whole	0.01	10	10	0	0
fenoxycarb	whole	0.01	not set	10	–	0
fenpyroximate	whole	0.01	not set	10	–	0
fenthion	whole	0.01	not set	10	–	0
fenvalerate (sum of isomers)	whole	0.01	2	10	0	0
fipronil	whole	0.002	not set	10	–	0

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Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
flonicamid	whole	0.01	not set	9	–	0
hexythiazox	whole	0.01	not set	10	–	0
imidacloprid	whole	0.01	0.05	10	0	0
indoxacarb	whole	0.01	0.01	10	0	0
malathion (maldison)	whole	0.01	8	10	0	0
methacrifos	whole	0.01	not set	10	–	0
methamidophos	whole	0.01	not set	10	–	0
methidathion	whole	0.01	not set	10	–	0
methiocarb	whole	0.01	not set	10	–	0
methomyl	whole	0.01	0.1	10	0	0
methoprene	whole	0.01	2	10	0	0
methoxychlor	whole	0.01	not set	10	–	0
methoxyfenozide	whole	0.01	not set	10	–	0
mevinphos	whole	0.01	not set	10	–	0
monocrotophos	whole	0.01	not set	10	–	0
omethoate	whole	0.01	0.05	10	0	0
parathion	whole	0.01	not set	10	–	0
parathion-methyl	whole	0.01	not set	10	–	0
permethrin (sum of isomers)	whole	0.01	2	10	0	0
phenothrin (sum of isomers)	whole	0.01	not set	10	–	0
phorate	whole	0.01	not set	10	–	0
phosmet	whole	0.01	0.05	10	0	0
piperonyl butoxide	whole	0.01	20	10	0	0
pirimicarb	whole	0.01	0.02	10	0	0
pirimiphos-methyl	whole	0.01	7	10	0	0
profenofos	whole	0.01	not set	10	–	0
propargite	whole	0.01	not set	10	–	0
prothiofos	whole	0.01	not set	10	–	0
pymetrozine	whole	0.01	not set	10	–	0
pyrethrins	whole	0.01	3	10	0	0
pyriproxyfen	whole	0.01	not set	10	–	0
spinetoram	whole	0.01	0.01	10	0	0
spinosad	whole	0.01	1	10	0	0
spirotetramat	whole	0.01	0.02	10	0	0
sulfoxaflor	whole	0.01	0.01	10	0	0
tau-fluvalinate	whole	0.01	not set	10	–	0
tebufenozide	whole	0.01	not set	10	–	0
tebufenpyrad	whole	0.01	not set	10	–	0

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
terbufos	whole	0.01	0.01	10	0	0
tetradifon	whole	0.01	not set	10	–	0
thiacloprid	whole	0.01	not set	10	–	0
thiamethoxam	whole	0.01	0.02	10	0	0
thiodicarb	whole	0.01	0.1	10	0	0
triazofos	whole	0.01	not set	10	–	0
trichlorfon	whole	0.01	0.1	10	0	0
triflumuron	whole	0.01	0.05	10	0	0

Table 4 Contaminants

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
aldrin and dieldrin (HHDN+HEOD)	whole	0.01	0.02	10	0	0
chlordane	whole	0.01	0.02	10	0	0
DDT	whole	0.01	0.1	10	0	0
endosulfan	whole	0.01	not set	10	–	0
endrin	whole	0.01	not set	10	–	0
HCB (hexachlorobenzene)	whole	0.01	0.05	10	0	0
HCH (BHC)	whole	0.01	0.1	10	0	0
heptachlor	whole	0.01	0.02	10	0	0
lindane (gamma-HCH)	whole	0.01	0.5	10	0	0
mirex	whole	0.01	not set	10	–	0

Table 5 Physiological modifier

Chemical	Matrix	LOR (mg/kg)	Australian standard (mg/kg)	No. of samples tested	> ½ MRL to ≤ MRL	> MRL
trinexapac-ethyl	whole	0.01	0.2	9	0	0